

The crystal field in the lanthanide nicotinate

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Abstract

The majority of the experimental results of previous measurements of optical absorption and fluorescence, including the Zeeman effect, of magnetic susceptibility and electron paramagnetic resonance, on lanthanide nicotinate dihydrates of the heavier half of the lanthanide group, have been accounted for by a model of the crystal field. This crystal field is constructed within the framework of the exchange charge model in an approximation with only four fitted parameters.

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